AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended): A system for stimulating the healing of tissue, comprising:

a porous pad;

an airtight dressing;

~~a means for connecting~~ a distal end of a conduit connected to ~~through~~ the dressing;

a canister removably connected to a proximal end of the conduit;

an electric pump for applying negative pressure to a wound site;

a ~~first~~ hydrophobic filter positioned between said canister and said electric pump ~~means for applying negative pressure~~; and

an odor vapor ~~second~~ filter positioned between said ~~first~~ hydrophobic filter and said electric pump ~~means for applying negative pressure; and~~

~~a means for managing a power supply source to power said electric pump~~.

2 (currently amended): The system of claim 1 wherein said hydrophobic ~~first~~ filter and said odor vapor ~~second~~ filter are incorporated ~~into an opening~~ as an integral part of said canister.

3 (currently amended): The system of claim 1 further comprising an ~~means~~ access port for sampling wound fluids, said access port being connected to said conduit and having a resealable membrane operable to maintain a seal after being punctured.

4 (currently amended): The system of claim 1 further comprising a ~~means~~ clamp for securing said system to a pole ~~stationary object~~.

5 (currently amended): The system of claim 1, further comprising a portable housing for said electric pump, said portable housing having a clamp for securing said system to

~~a pole wherein said means for applying negative pressure to the wound site comprises an electric pump housed within a portable housing.~~

6 (cancelled).

7 (original): The system of claim 1 wherein said porous pad is comprised of an open cell polymer.

8 (currently amended): The system of claim 1, further comprising ~~6 wherein said~~ means for ~~managing said power supply source is comprised of~~ deactivating a backlight to a display after a predetermined interval.

9 (currently amended): The system of claim 1, further comprising a motor control that determines a tentative motor drive power for reaching a target pressure and which withholds ~~6 wherein said means for managing said power supply source is comprised of preventing~~ electric power from ~~reaching~~ an electric motor ~~until~~ unless the tentative motor drive power is sufficient ~~power has been generated~~ to activate said motor.

10 (original): The system of claim 1 wherein said conduit is comprised of longitudinal partitions that form a drainage conduit and a pressure detection conduit.

11 (original): The system of claim 10 wherein a plurality of said detection conduits are arranged about said drainage conduit.

12 (currently amended): The system of claim 10, further comprising a resealable access port for sampling fluids, said access port comprising an appendage of ~~wherein said means for sampling fluids is comprised of a resealable access port to~~ said drainage conduit.

13 (currently amended): A system for stimulating the healing of tissue, comprising: a porous pad; an airtight dressing; ~~a means for connecting~~ a distal end of a drainage tube

connected to ~~through~~ said dressing; a canister removably connected to a proximal end of the drainage tube; a self-contained pumping mechanism for applying negative pressure to the wound site; the pumping mechanism including an electric motor; and a power management motor control that determines a tentative motor drive power for reaching a target pressure and which withholds electric power from the electric motor unless the tentative motor drive power is sufficient to activate said electric motor ~~means for managing a power supply to said self-contained pumping mechanism~~.

14 (currently amended): The system of clam 13, further comprising ~~wherein said~~ means for ~~managing said power supply comprises~~ deactivating a backlight to a display after a predetermined interval.

15 (cancelled).

16 (currently amended): The system of claim 13 further comprising an access port ~~means~~ for sampling wound fluids, said access port being connected to said drainage tube and having a resealable membrane operable to maintain a seal after being punctured.

17 (currently amended): The system of claim 13 further comprising a clamp ~~means~~ for securing said system to a pole ~~stationary object~~.

18 (previously presented): The system of claim 13 wherein said porous pad is comprised of a polyvinyl alcohol foam.

19 (currently amended): A system for stimulating the healing of tissue, comprising:

a porous pad;

an airtight dressing;

an electric pump for applying negative pressure to a wound site;

a canister removably connected to said electric pump ~~means for applying negative pressure~~;

a housing for containment of said canister and said electric pump ~~means for applying negative pressure~~;

a clamp ~~means~~ for securing said housing to a pole ~~stationary object~~; and

a power management motor control that determines a tentative drive power for reaching a target pressure and which withholds electric power from said electric pump unless the tentative drive power is sufficient to activate ~~means for managing a power supply for~~ said electric pump.

20 (cancelled).

21 (currently amended): The system of claim 19, further comprising ~~wherein said power supply for said electric pump comprises~~ a portable power unit for supplying power to said electric pump.

22 (cancelled).

23 (currently amended): The system of claim 19, further comprising ~~wherein said~~ means for ~~managing a power supply is comprised of~~ deactivating a backlight to a display on said housing after a predetermined interval.

24 (cancelled).

25 (original): The system of claim 19 wherein said porous pad is comprised of a polyvinyl alcohol foam.

26 (previously presented): The system of claim 19 further comprising a conduit having a proximal end and a distal end, and wherein said proximal end is removably connected to said canister and said distal end is in fluid communication with the wound site.

27 (original): The system of claim 26 wherein said conduit is comprised of longitudinal partitions that form a drainage conduit and a pressure detection conduit.

28 (previously presented): The system of claim 27 wherein a plurality of said detection conduits are arranged about said drainage conduit.

29 (currently amended): The system of claim 26 further comprising a ~~means~~ resealable access port for sampling wound fluids, said access port being connected to said conduit and having a resealable membrane operable to maintain a seal after being punctured.

30 (currently amended): The system of claim 29 wherein said ~~means for sampling wound fluids is comprised of a~~ resealable access port comprises an appendage of said conduit.

31 (previously presented): A system for stimulating the healing of tissue, comprising:

a porous pad;

an airtight dressing;

a means for applying negative pressure to a wound site;

a power management motor control that determines a tentative drive power for reaching a target pressure and which withholds electric power from said means for applying negative pressure unless the tentative drive power is sufficient to activate ~~means for managing a power supply to~~ said means for applying said negative pressure; and

a means for varying said negative pressure over a time interval.

32 (original): The system of claim 31 wherein said means for varying said negative pressure comprises adjusting actual pressure to meet a varying target pressure.

33 (original): The system of claim 32 wherein said varying target pressure oscillates between a target maximum and a target minimum pressure.

34 (currently amended): The system of claim 31, further comprising ~~wherein said~~ means for ~~managing said power supply is comprised of~~ deactivating a backlight to a display of said system after a predetermined interval.

35. (cancelled).

36. (currently amended) A system for stimulating the healing of tissue, comprising:

a porous pad for application at a wound site;

an airtight dressing to cover the porous pad;

a variable frequency ~~an oscillating~~ pump for applying negative pressure to ~~a~~ the wound site; and

~~a means for maximizing~~ control system to determine an optimum drive frequency for driving the variable frequency pump in order to maximize pump flow rate ~~over a pressure range; and~~

~~a means for managing a power supply to said oscillating pump~~.

37 (cancelled).

38 (currently amended): The system of claim 36, further comprising ~~wherein said means for varying said drive frequency comprises~~:

a pressure sensor for measuring pressure across said pump; and

~~a control system for determining optimum drive frequency for said pump relative to pressure detected by said pressure sensor; and~~

a variable frequency drive circuit for driving said pump at said optimum drive frequency.

39 (currently amended): The system of claim 36, further comprising ~~wherein said~~ means for ~~managing a power supply is comprised of~~ deactivating a backlight to a display of said system after a predetermined interval.

40 (currently amended): The system of claim 36, further comprising a power management control that determines a tentative drive power for reaching a target pressure and which withholds electric power from said means for applying negative pressure unless the tentative drive power is sufficient to activate ~~wherein said means for managing a power supply is~~

~~comprised of preventing electric power from reaching said oscillating pump until sufficient power has been generated to activated~~ said oscillating pump.